

AZD5423

Chemical Properties

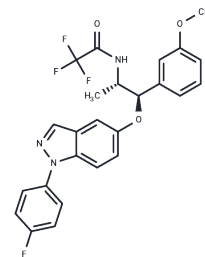
CAS No. : 1034148-04-3

Formula: C₂₅H₂₁F₄N₃O₃

Molecular Weight: 487.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AZD5423 is an inhaled, potent, selective, and non-steroidal modulator of the glucocorticoid receptor (GR) that effectively reduces allergen-induced responses in individuals with mild allergic asthma.
Targets(IC50)	Glucocorticoid Receptor
In vitro	AZD5423 exhibits high affinity for the glucocorticoid receptor, with an IC ₅₀ of 0.9 nM in a radioligand human glucocorticoid receptor assay, and demonstrates over 900-fold selectivity towards other steroid hormone receptors[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (205.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.21 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0515 mL	10.2575 mL	20.5149 mL
5 mM	0.4103 mL	2.0515 mL	4.103 mL
10 mM	0.2051 mL	1.0257 mL	2.0515 mL
50 mM	0.041 mL	0.2051 mL	0.4103 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Werkström V, et al. Safety, Pharmacokinetics and Pharmacodynamics of the Selective Glucocorticoid Receptor Modulator AZD5423 after Inhalation in Healthy Volunteers. *Basic Clin Pharmacol Toxicol.* 2016 Dec;119(6):574-581.
Gauvreau GM, et al. A nonsteroidal glucocorticoid receptor agonist inhibits allergen-induced late asthmatic responses. *Am J Respir Crit Care Med.* 2015 Jan 15;191(2):161-7.

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